

# Appendix D-1: Conceptual Design Deliverables

This appendix identifies the deliverables required when a conceptual design is included in the scope of a planning project. Such planning projects may include watershed or reach assessments and feasibility studies. Projects resulting in a conceptual design must have a minimum 15 percent match. This guidance is intended to ensure that project sponsors, evaluators, and SRFB staff have the same expectations for grant agreement deliverables.

All restoration projects that include design elements shall follow four standard project development stages: Conceptual design, preliminary design, final design, and the construction phase. The deliverables for all projects are listed in the table below, with the conceptual design deliverables highlighted. The deliverables are further described in Appendices D 1-4.

**Project Deliverables**

Project Type	Conceptual design	Preliminary design report	Permit applications	Design review comments	Final design report and drawings	Technical specification	Construction quantities and costs	Bidding documents	Permits	Cultural resources compliance	Control and tenure documentation	As-built
	✓											
	Application	✓	Optional	Optional						***		
	Application	✓	Optional	✓	✓	✓	✓	✓	Optional	***		
	Application	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

\*\* Design-build construction projects have an abbreviated set of design requirements prior to construction. See Appendix D-4.

\*\*\* Cultural resources compliance may be required if Sponsor is conducting ground disturbing activities during the design phases.

## **Conceptual Design Deliverables**

The following deliverables must be submitted to your SRFB grants manager along with any assessment and feasibility deliverables funded in the scope of work.

1. Description of the project site and the problem(s) within the context of salmon recovery;
2. Identification of specific goals and objectives for addressing the problem(s);
3. Identification and conceptual design of alternatives for achieving the project objectives. Each conceptual design alternative must include a description of the design and a plan view drawing of existing site conditions and the proposed project on accurately scaled site plans. The plan view drawing must include: an area/location map; property boundaries (either surveyed or approximated based on assessor's data); landownership; roads or other infrastructure as appropriate; scale; north arrow; water bodies and direction of flow; bank-full width or mean high water line for marine waters; and approximate dimensions of proposed elements;
4. Evaluation and discussion of stakeholder comments and the pros and cons of each alternative;
5. Selection of the preferred alternative(s); and
6. Rough construction cost estimate of the preferred alternative(s).